

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) Separator of stacked sheets, that being applicable as a means of separating blocks (33) and (33') of stacked sheets (31), these blocks (33-33') delimited by corresponding pre-cut lines (32), in order to allow that each sector of these blocks (33) and (33') should form a cardboard box; ~~characterised in that it includes~~ the separator comprising conveyor belts (3) and (3') mounted on corresponding moveable frames (2) and (2'), intended to tilt centrally and upwards to obtain the separation, along the pre-cut line (32), of the blocks (33) and (33'), previously placed on both conveyor belts (3) and (3'), with the pre-cut line (32) in correspondence with the central area established between both bands (3) and (3') in whose central area respective rollers (6) and (6') are mounted, that, in combination with external rollers (5) and (5') and other tensing and lower rollers (7), form the means of support and movement for the conveyor belts (3) and (3'), driven by corresponding traction rollers (34) and (34') set up between the tensing rollers (7) and (7'); with the particularity that beneath the internal rollers (6-6') and centrally, cylinders (28) have been provided, whose activation produces the rise and corresponding upwards pivoting of the mobile frames (2) and (2') and with them of the conveyor belts (3) and (3'), as well as of the corresponding interior rollers (6) and (6'); the external rollers (5-5') remaining static.

2. (currently amended) Stacked sheets separator, according to claim 1, ~~characterised in that~~ wherein, on the mobile frames (2) and (2') mounted on a lower fixed structure (1), twin pressure mechanisms (8) are placed, able to move in an upwards and downwards direction, in order that in the downwards movement they press, through lower retaining pads (18), onto the top surface of the blocks (33) and (33') of the stacked sheets (31).

3. (currently amended) Stacked sheets separator, according to the claim 2, ~~characterised in that~~ wherein the retaining pads (18) are mounted on support blocks (19), joined with a damping chamber (20).

4. (currently amended) Stacked sheets separator, according to ~~claims 2 and~~ claim 3, ~~characterised in that~~ wherein the pressing mechanisms (8) have a frame (9) and crossbeams (10), those fitted with side and end plates (11) with guide rollers (12) in the upwards and downwards movements of the actual pressing mechanisms (8), the crossbars (10) being mounted with freedom of movement with respect to the frame (9), after prior activation of a handle (13) associated with a gear mechanism (14) and slide fastener (16), that allow the movement of said crossbars (10) and their corresponding positioning to adapt themselves to different formats (33) and (33') of blocks to be separated.

5. (currently amended) Stacked sheets separator, according to claim 1, ~~characterised in that~~ wherein the corresponding shaft (21) of the internal rollers (6) and (6') of the conveyor belts (3) and (3'), are associated with plates (22) and (23), through arms (24) and (25), it being arranged that the aforementioned shaft (21) of each rollers (6) and (6') is supported on a section (26), by means of arms (27), with ability to freely rotate, a section (26) that can be activated by means of the cylinders (28), of short stroke, to carry out the ascending movement of these rollers (6) and (6') along with the frames (2) and (2') to obtain the separation, along the pre-cut line (32), of the blocks (33) and (33'), placed on both belt conveyors (3) and (3').

6. (currently amended) Stacked sheets separator, according to the claim 5, ~~characterised in that~~ wherein corresponding with each of the corners of the mobile frames (2) and (2'), pulley wheels (29) have been arranged that slide in corresponding small boxes (30) fixed to the actual moveable frames (2) and (2'), allowing the small horizontal movements, originating in the upwards folding of the actual mobile frames (2) and (2'), to be absorbed.